

Listing of Claims:

Claims 1-10 (canceled)

11. (New) A sample chip analyzing device comprising:

✓ a waveguide plate which entirely reflects and guides
incident light, and which includes a number of sampling probes
that are connectable to a sample to be analyzed;

5 a light source, provided in a light-shielding box having an
opening into which an end portion of the waveguide plate is
inserted in a light-shielded state, for irradiating fluorescent
32 pumping light onto an end face of the end portion of the
waveguide plate inserted into the light-shielding box; and

10 a pickup member for picking up an image of substantially an
entire surface of the waveguide plate, and outputting picked-up
data;

wherein the sample to be analyzed is labeled with
fluorescent substances that are fluorescence-pumped by an
15 evanescent wave which occurs when the fluorescent pumping light
from the light source is irradiated onto the end face of the end
portion of the waveguide plate and enters into an interior of the
waveguide to be entirely reflected and guided; and

20 wherein the sample is analyzed by detecting respective ones
of the sampling probes that are coupled to the fluorescence-

pumped fluorescent substances of the labeled sample, based on the picked-up data outputted by the pickup member.

12. (New) The sample chip analyzing device according to claim 11, wherein the waveguide plate comprises a glass substrate.

13. (New) The sample chip analyzing device according to claim 11, wherein the waveguide plate comprises a pair of spaced apart insulation reflection plates arranged opposite to each other.
